



P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

European
Patent Office

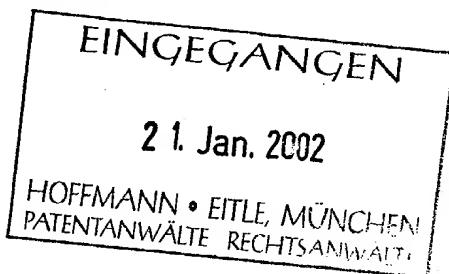
Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

R.W

HOFFMANN - EITLE
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München
ALLEMAGNE



21
5

Datum/Date
21.01.02

Zeichen/Ref./Ref. 87 038 a/scho	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 01107496.0-2207-
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire MITSUBISHI DENKI KABUSHIKI KAISHA	

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract ☐ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 10 7496

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 4 922 148 A (KITAMURA) 1 May 1990 (1990-05-01) * abstract * * column 3, line 17-45; figures 1,2 *	1,2	H02K9/19 H02K9/22
A	EP 1 037 361 A (HITACHI, LTD.) 20 September 2000 (2000-09-20) * abstract * * column 2, line 35 - column 3, line 5; figure 1 *	1,2	
D,A	US 5 798 586 A (ADACHI) 25 August 1998 (1998-08-25) * abstract * * column 2, line 36-67; figures 1,2 *	1,3	
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07, 29 September 2000 (2000-09-29) -& JP 2000 125512 A (DENSO CORP), 28 April 2000 (2000-04-28) * abstract; figures 1,2,11,15 *	4,6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H02K
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 15 January 2002	Examiner Beitner, M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 7496

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-01-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4922148	A	01-05-1990	JP	1274640 A	02-11-1989
			JP	2090738 C	18-09-1996
			JP	8010974 B	31-01-1996
			FR	2630596 A1	27-10-1989
			GB	2217923 A ,B	01-11-1989
			KR	9200505 B1	14-01-1992
EP 1037361	A	20-09-2000	JP	2000270518 A	29-09-2000
			EP	1037361 A1	20-09-2000
			US	6239518 B1	29-05-2001
US 5798586	A	25-08-1998	JP	2842500 B2	06-01-1999
			JP	6296348 A	21-10-1994
JP 2000125512	A	28-04-2000	NONE		

Patent Abstracts of Japan

PUBLICATION NUMBER : 2000125512
PUBLICATION DATE : 28-04-00

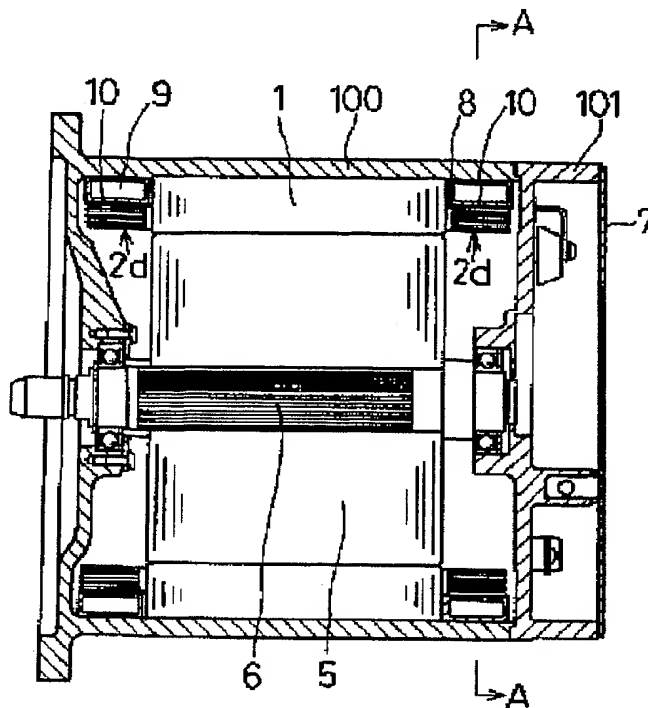
APPLICATION DATE : 14-10-98
APPLICATION NUMBER : 10292036

APPLICANT : DENSO CORP;

INVENTOR : KATO TOSHIICHI;

INT.CL. : H02K 9/19 H02K 3/24

TITLE : COIL END CONTACT COOLING TYPE
DYNAMO-ELECTRIC MACHINE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a large-output and small and light dynamo-electric machine, while avoiding the temperature rise of a stator coil.

SOLUTION: At least the coil end 2d of a stator coil is constituted by laying each axial projection, consisting of a conductor in the shape of a thin plate projecting from the end plate of a stator core in an attitude that the thickness direction is in matching with the diametrical direction of the stator core 1 on top of the other each in diametrical direction. The cooling capacity of the coil end part 2d is raised by providing the dynamo-electric machine with cooling members 8 and 9 of food thermal conductivity which have flat cooling faces sticking fast directly, while being electrically insulated, to the flat main face of the thin plate-shaped conductor on the outermost side diametrical direction or innermost side diametrical direction of this coil end 2d.

COPYRIGHT: (C)2000,JPO